

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A piston comprising:
made of a dimensionally stable material; and
wherein said piston is enclosed at the outer periphery thereof by a sealing ring
(1) formed of an elastically yielding material; and
the sealing ring is capable of being inflated radially outward radially.
2. (Currently Amended) The piston according to Claim 1,
wherein characterized in that the sealing ring (1) is made of comprises a polymeric
material.
3. (Currently Amended) The piston according to one of Claims 1 or 2,
wherein characterized in that the sealing ring (1) is made of comprises a PTFE compound.
4. (Currently Amended) The piston according to one of Claims 1 to 3,
characterized in that said piston is provided with further comprising:
a jacket (2) in the formed of a hollow cylinder, and which for wherein the purpose
of inflating the sealing ring (1) has jacket has at least one recess (3) that linking a
pressurizable working space (4) of the piston with the an inner peripheral inner surface (5)
of the sealing ring (1), and said jacket enables an inflation of said sealing ring.

5. (Currently Amended) The Ppiston according to Claim 4, ~~wherein characterized in that~~ the working space (4) is limited by a housing (6) ~~that enclosing~~ encloses the piston.

6. (Currently Amended) The Ppiston according to ~~one of Claims 1 to 5,~~ ~~wherein characterized in that in its~~ an inflatable region (7) ~~of the sealing ring (1)~~ is provided with at least one sealing lip (9) ~~that is~~ capable of elastically expanding outward and touching ~~the~~ a sealing surface (8) of the housing (6).

7. (Currently Amended) The Ppiston according to ~~one of Claims 1 to 6,~~ ~~wherein characterized in that~~ the sealing lip (9) ~~comprises~~ is in the form of a hinged film.

8. (Currently Amended) The Ppiston according to ~~one of Claims 1 to 7,~~ ~~wherein characterized in that the~~ an automatic inflation of the sealing ring (1) occurs exclusively as a function of ~~a~~ the pressure in ~~a~~ the working space disposed within said piston (4).

9. (Currently Amended) The Ppiston according to ~~one of Claims 1 to 8,~~ ~~wherein characterized in that the medium for inflating the sealing ring (1) is~~ comprises a hydraulic or pneumatic inflating medium.

10. (Currently Amended) The Ppiston according to ~~one of Claims 1 to 9,~~

~~wherein~~ characterized in that the inflatable region (7) is located frontally at one side of the sealing ring (1) includes an inflatable region frontally located at one side of the sealing ring.

11. (Currently Amended) ~~The P~~piston according to ~~one of Claims 1 to 10,~~
~~wherein~~ characterized in that only the inflatable region (7) of the sealing ring (1) touches ~~a~~the sealing surface (8) of ~~a~~the housing (6) in a sealing manner.

12. (Currently Amended) ~~The P~~piston according to ~~one of Claims 1 to 10,~~
~~wherein~~ characterized in that the ~~an~~ inflatable region (7) is frontally located frontally on one side of the sealing ring (1); and

~~that frontally on the other side of the sealing ring (1), on the side facing axially away, there is provided a sealing lip (10)~~ is frontally provided on another side of the sealing ring that faces axially away from said inflatable region.

13. (New) A piston comprising:
a pressurizable working space;
a jacket formed of a hollow cylinder coupled to the pressurizable working space;
and
an inflatable sealing ring coupled to and disposed at an outer surface of the jacket,
the inflatable sealing ring sealing a region between the piston and a housing;
wherein the sealing ring is inflated by pressurizing the working space.

14. (New) The piston according to claim 13, wherein the sealing ring comprises a convex bulb that inflates to seal the region between the piston and the housing.

15. (New) The piston according to claim 13, wherein the sealing ring comprises a sealing lip formed of a hinged film that expands outward to seal the region between the piston and the housing.

16. (New) The piston according to claim 13, wherein the sealing ring inflates to an amount proportionate to a pressure contained within the pressurizable working space.